Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-22 (canceled).

1 Claim 23 (new): A method for optimising at least one
2 property of a satellite system, the satellite system having
3 a satellite provided with a transmitter for transmitting a
4 satellite signal representing data, and a satellite receiver
5 comprising an antenna array with at least two antenna
6 elements for receiving said satellite signal, wherein the
7 method comprises the steps of:
8   receiving, at said satellite receiver, the satellite
9 signal so as to define a received satellite signal;
10   determining, from the received satellite signal,
11 received data;
12   checking said received data for an amount of data
13 errors; and
14   if a result of said checking satisfies a predetermined
15 criterion, changing gain, phase or electrical delay of at
16 least one of said at least two antenna elements.

1 Claim 24 (new): The method recited in claim 23 wherein the
2 changing step further comprises the step of changing a
3 polarisation of the satellite receiver.

1 Claim 25 (new): The method recited in claim 24 wherein the
2 polarisation is either linear or circular.

1   Claim 26 (new): The method recited in claim 23 wherein the
2   antenna array comprises an electrically tunable antenna
3   array.

1   Claim 27 (new): The method recited in claim 23 wherein the
2   antenna array comprises a phased array antenna.

1   Claim 28 (new): The method recited in claim 23 further
2   comprising the step of calibrating at least one of the
3   antenna elements.

1   Claim 29 (new): The method recited in claim 23 further
2   comprising the step of optimising at least one property of
3   an antenna beam of the satellite receiver.

1   Claim 30 (new): The method recited in claim 29 further
2   comprising the step of changing amplitude of the satellite
3   signal before determining the data from the satellite
4   signal.

1   Claim 31 (new): The method recited in claim 23 wherein the
2   data represented by the satellite signal is encoded data,
3   said encoded data having been encoded by means of a coding
4   algorithm, and wherein said determining step comprises the
5   step of decoding the data with a suitable decoding
6   algorithm; and the received data checking step comprises the
7   step of determining the data errors from the decoded data.

1   Claim 32 (new): The method recited in claim 31 wherein the
2   data represented by the satellite signal is encoded with an
3   MPEG-2 compliant coding algorithm.

1   Claim 33 (new): The method recited in claim 31 wherein the
2   data represented by the satellite signal is encoded with a
3   forward error correction coding algorithm.

1   Claim 34 (new): The method recited in claim 31 wherein the
2   data represented by the satellite signal is encoded with a
3   Viterbi coding algorithm.

1   Claim 35 (new): The method recited in claim 31 wherein the
2   data represented by the satellite signal is encoded with a
3   Reed-Solomon coding algorithm.

1   Claim 36 (new): The method recited in claim 23 wherein the
2   result satisfies the predetermined criterion if a ratio of
3   an amount of the data errors relative to an amount of data
4   exceeds a predetermined threshold value.

1   Claim 37 (new): The method recited in claim 36 wherein the
2   ratio is a bit error ratio.

1   Claim 38 (new): An optimisation device for a satellite
2   receiver, the optimisation device comprising:
3   an optimisation input connectable to at least one
4   signal output of the satellite receiver for receiving at
5   least one received satellite signal representing received
6   data;
7   a data error determining section communicatively
8   connected to the optimisation input, for determining an
9   amount of data errors in said received data;
10   a comparator for comparing the amount of data errors
11   with a predetermined criterion, said comparator having a
12   comparator output for providing an adjust signal if the

13 amount of data errors satisfies said predetermined

14 criterion;

15   wherein the receiver comprises an antenna array with

16 at least two antenna elements;

17   the optimisation device further comprises an adjuster

18 device for adjusting gain, phase or electrical delay of at

19 least one of the antenna elements in response to the adjust

20 signal from the comparator output.

1   Claim 39 (new): A satellite receiver, comprising

2   at least two antenna elements;

3   a control device arranged for controlling gain, phase

4   or electrical delay of at least one of the antenna elements;

5   said control device having an input for receiving a control

6   signal and an output connected to a control input of the

7   antenna elements; and

8   at least one optimisation device as recited in

9   claim 38 communicatively connected with its optimisation

10 input to a signal output of said at least one antenna

11 element and connected with an optimisation output to the

12 input of the control device for adjusting gain, phase or

13 electrical delay of said at least one of the antenna

14 elements.

1   Claim 40 (new): A satellite system comprising a satellite

2   with a signal source arranged for transmitting a satellite

3   signal representing binary data and at least one satellite

4   receiver as recited in claim 39 for receiving the satellite

5   signal.

1   Claim 41 (new): A computer readable media having machine

2   executable instructions stored thereon for enabling a

3   programmable device to perform steps of the method as

4   recited in claim 23 when the instructions are executed on

5   said programmable device.